

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102023\
 Data File : VX038413.D
 Acq On : 20 Oct 2023 19:22
 Operator : JC/MD
 Sample : 04991-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1021-1024

Quant Time: Oct 21 01:50:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 05 15:27:13 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

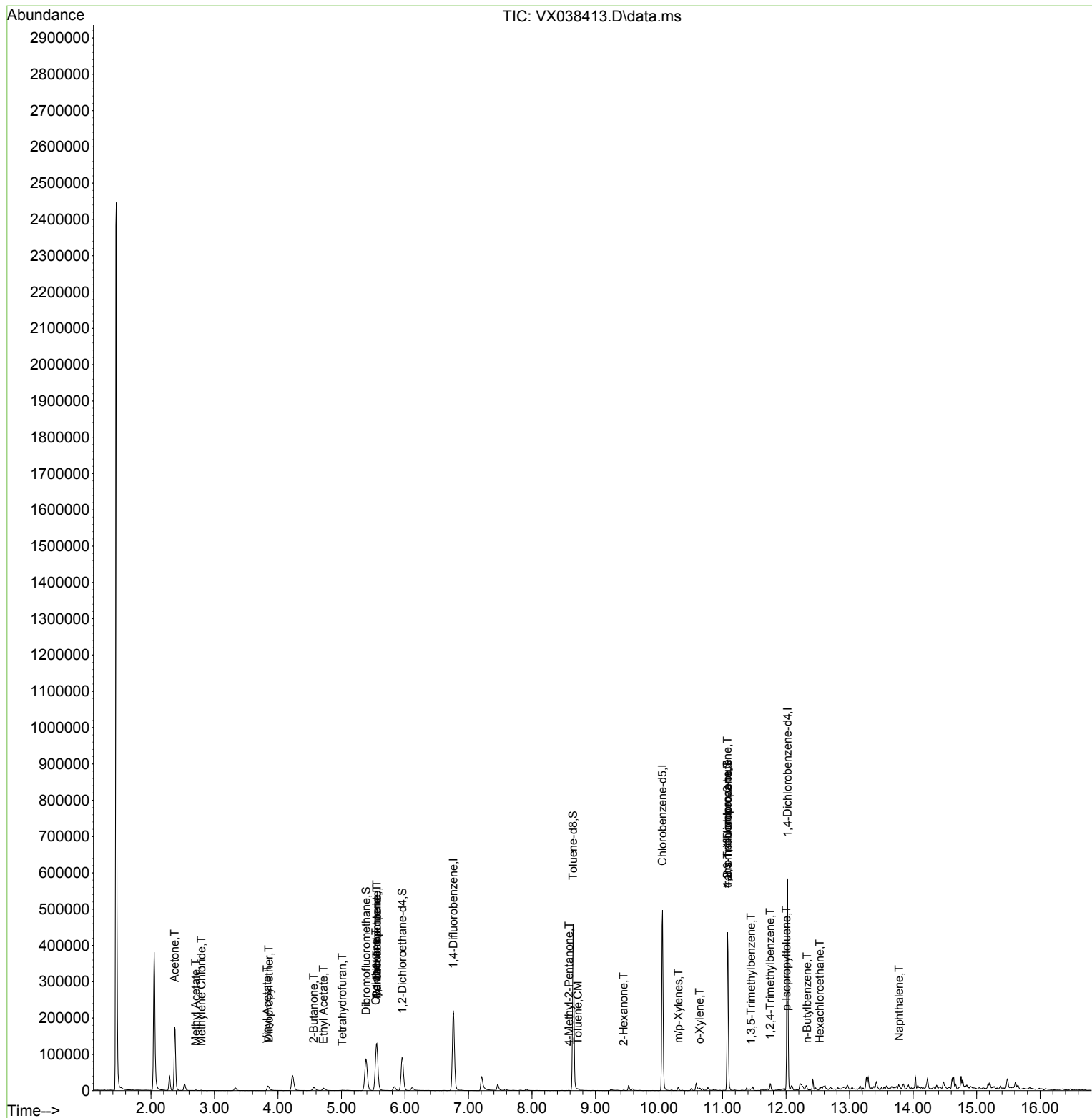
Internal Standards						
1) Pentafluorobenzene	5.556	168	124864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	224763	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	233588	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	124569	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	89390	44.509	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	89.020%		
35) Dibromofluoromethane	5.385	113	74016	45.701	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.400%		
50) Toluene-d8	8.647	98	283662	45.835	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	91.680%#		
62) 4-Bromofluorobenzene	11.079	95	109225	46.554	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.100%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.581	94	22	Below Cal	#	3
6) Chloroethane	1.654	64	74	Below Cal	#	43
11) Tert butyl alcohol	2.940	59	189	Below Cal	#	78
16) Acetone	2.373	43	185094	220.827	ug/l	94
18) Methyl Acetate	2.703	43	2433	0.677	ug/l	93
20) Methylene Chloride	2.794	84	473	0.300	ug/l	# 76
22) Diisopropyl ether	3.855	45	924	0.216	ug/l	# 1
23) Vinyl Acetate	3.831	43	2196	0.699	ug/l	# 73
25) 2-Butanone	4.562	43	8564	6.332	ug/l	97
29) Tetrahydrofuran	5.013	42	215	0.244	ug/l	# 75
31) Cyclohexane	5.544	56	3029	1.392	ug/l	# 45
36) 1,1-Dichloropropene	5.556	75	10474	4.690	ug/l	# 50
37) Ethyl Acetate	4.715	43	11233	4.235	ug/l	95
38) Carbon Tetrachloride	5.556	117	12993	5.914	ug/l	# 15
51) 4-Methyl-2-Pentanone	8.580	43	695	0.254	ug/l	# 66
52) Toluene	8.720	92	1043	0.256	ug/l	81
59) 2-Hexanone	9.439	43	933	0.425	ug/l	89
68) m/p-Xylenes	10.305	106	2080	0.617	ug/l	97
69) o-Xylene	10.640	106	960	0.292	ug/l	93
76) 1,2,3-Trichloropropane	11.079	75	60182	21.251	ug/l	# 39
80) 1,3,5-Trimethylbenzene	11.451	105	1980	0.275	ug/l	88
81) trans-1,4-Dichloro-2-b...	11.079	75	60182	61.080	ug/l	# 5
84) 1,2,4-Trimethylbenzene	11.750	105	8740	1.216	ug/l	97
86) p-Isopropyltoluene	12.006	119	1899	0.252	ug/l	# 70
89) n-Butylbenzene	12.329	91	2053	0.274	ug/l	# 42
90) Hexachloroethane	12.530	117	255	0.204	ug/l	# 17
95) Naphthalene	13.780	128	6560	0.713	ug/l	100

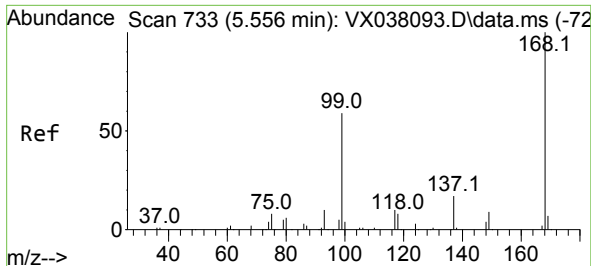
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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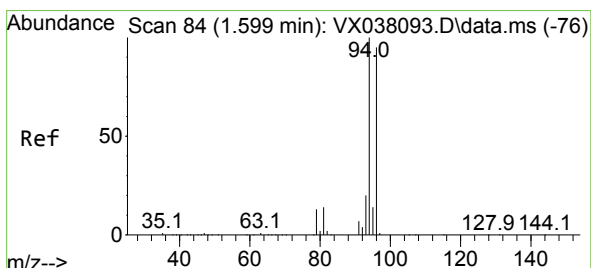
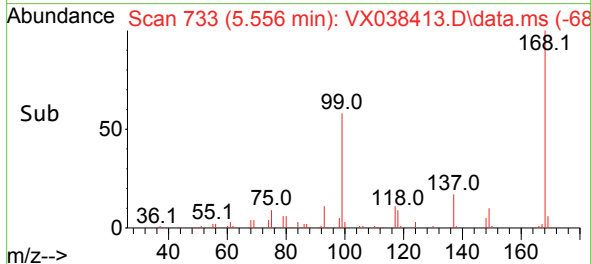
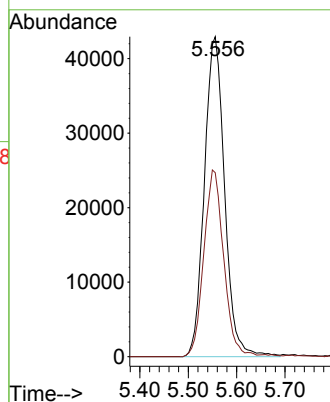
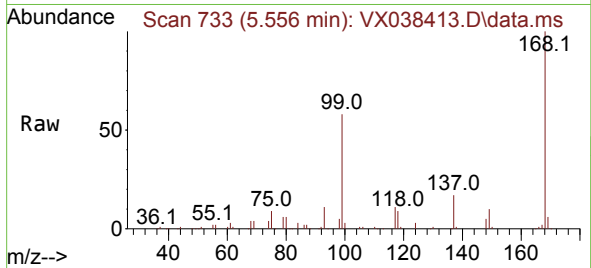




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

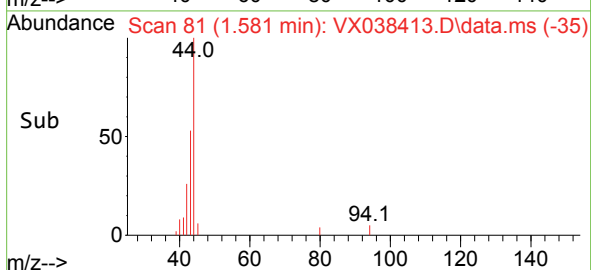
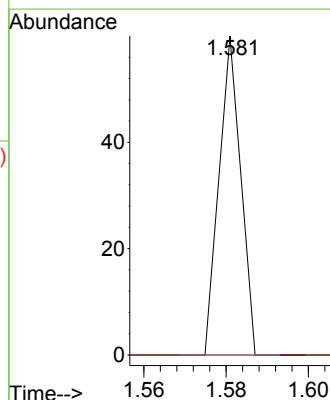
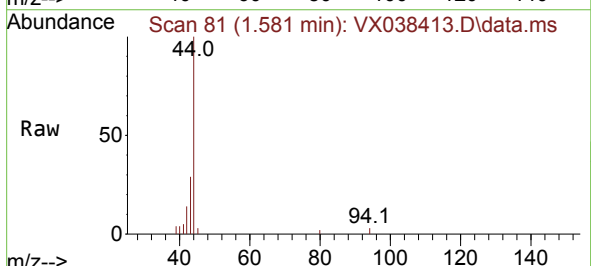
Instrument :
MSVOA_X
ClientSampleId :
1021-1024

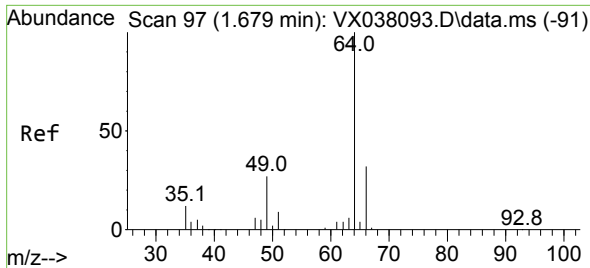
Tgt Ion:168 Resp: 124864
Ion Ratio Lower Upper
168 100
99 57.5 56.6 85.0



#5
Bromomethane
Concen: Below Cal
RT: 1.581 min Scan# 81
Delta R.T. -0.018 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion: 94 Resp: 22
Ion Ratio Lower Upper
94 100
96 0.0 74.6 111.8#

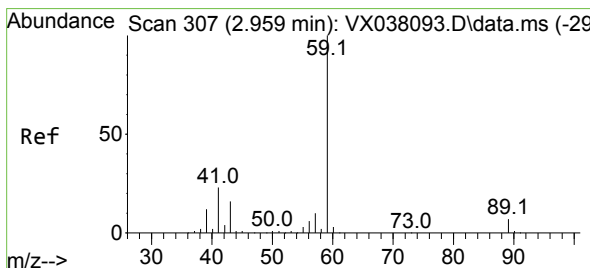
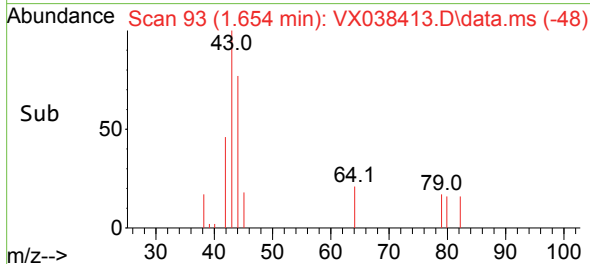
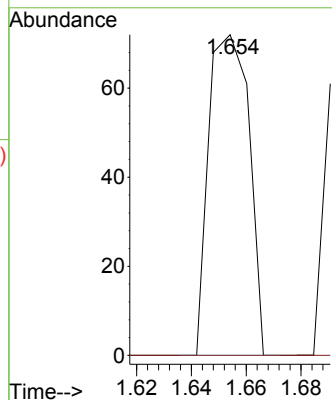
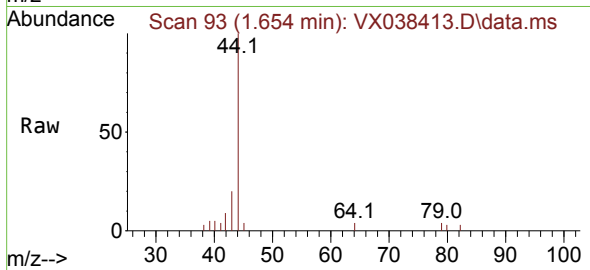




#6
Chloroethane
Concen: Below Cal
RT: 1.654 min Scan# 91
Delta R.T. -0.025 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

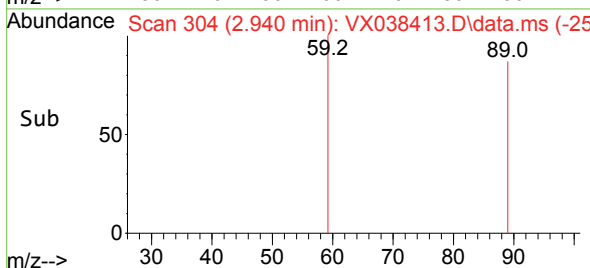
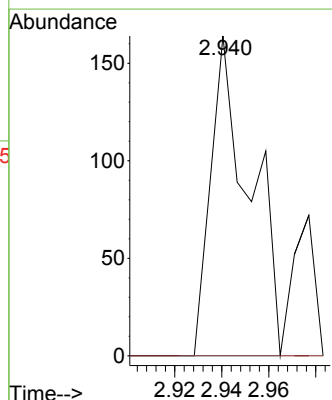
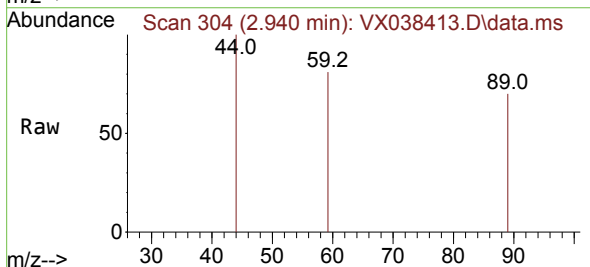
Instrument :
MSVOA_X
ClientSampleId :
1021-1024

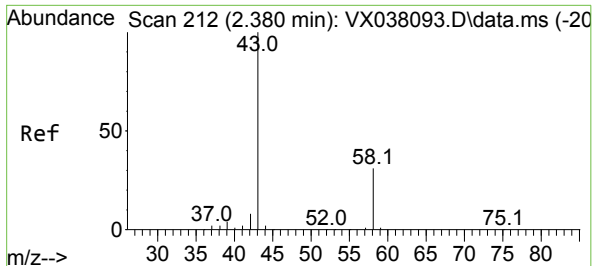
Tgt Ion: 64 Resp: 74
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.940 min Scan# 304
Delta R.T. -0.019 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion: 59 Resp: 189
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#

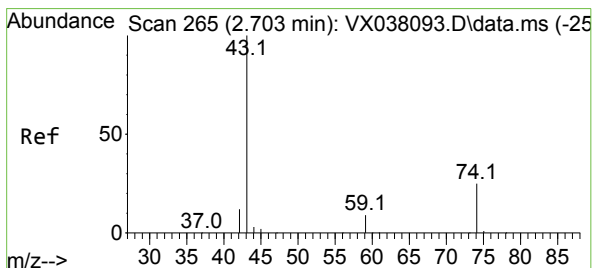
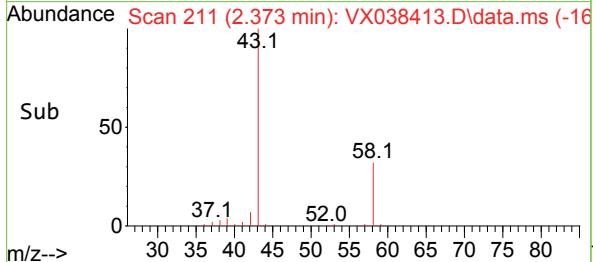
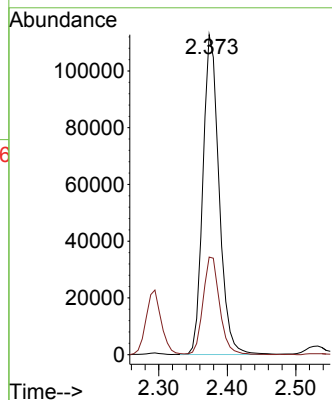
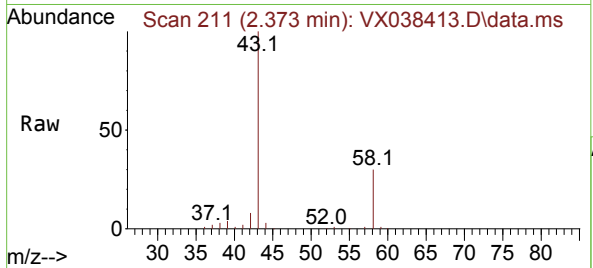




#16
Acetone
Concen: 220.827 ug/l
RT: 2.373 min Scan# 212
Delta R.T. -0.007 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

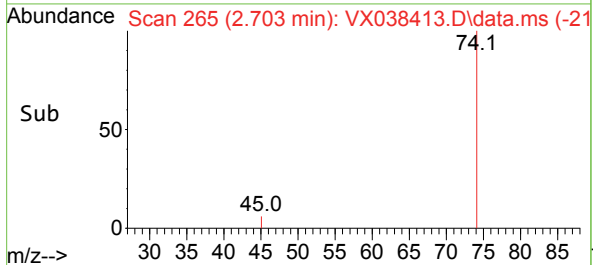
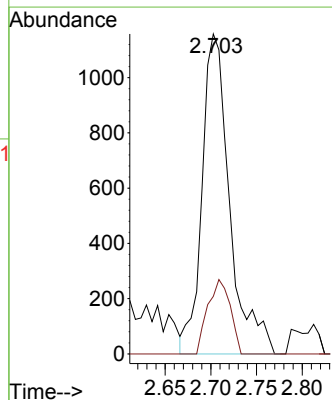
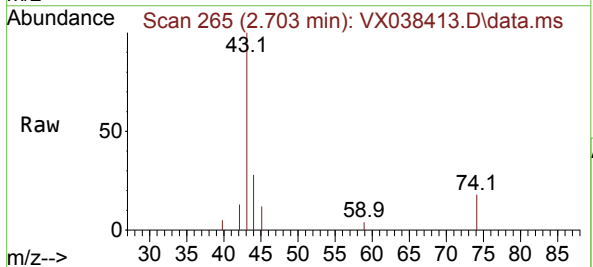
Instrument :
MSVOA_X
ClientSampleId :
1021-1024

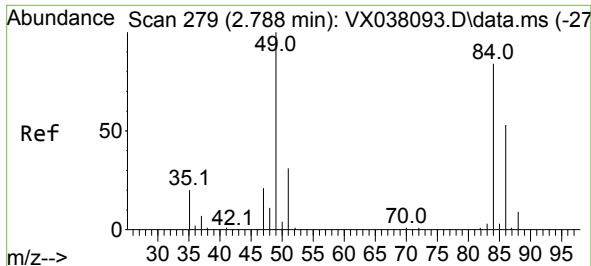
Tgt Ion: 43 Resp: 185094
Ion Ratio Lower Upper
43 100
58 30.4 21.9 32.9



#18
Methyl Acetate
Concen: 0.677 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion: 43 Resp: 2433
Ion Ratio Lower Upper
43 100
74 18.8 17.8 26.8



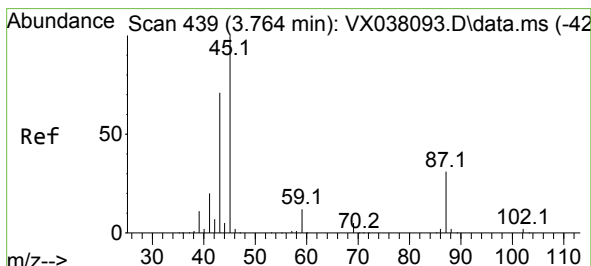
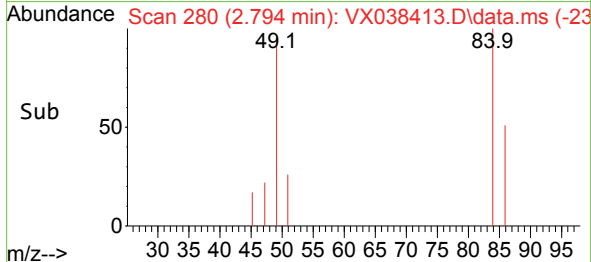
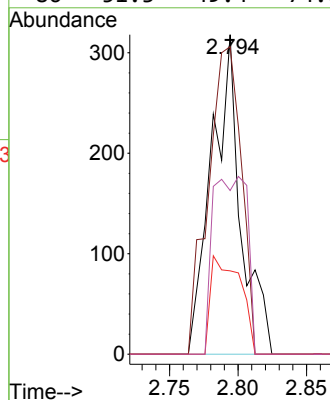
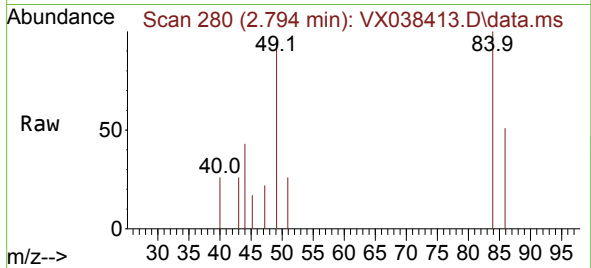


#20
Methylene Chloride
Concen: 0.300 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Instrument :
MSVOA_X
ClientSampleId :
1021-1024

Tgt Ion: 84 Resp: 473

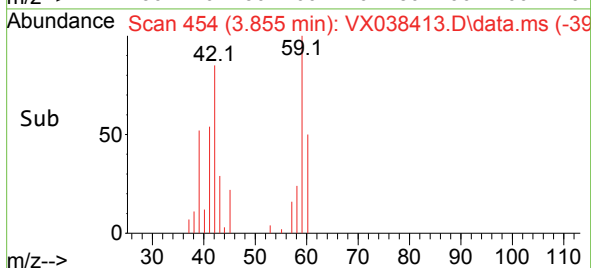
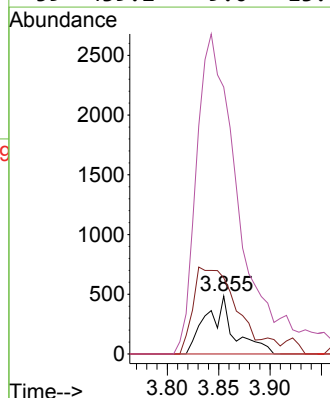
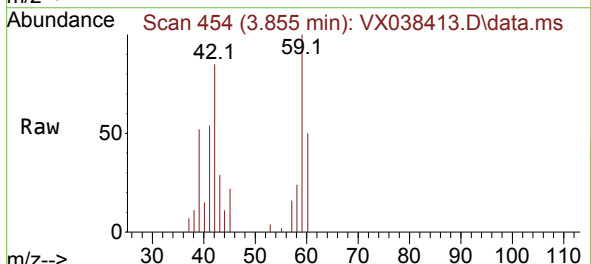
Ion	Ratio	Lower	Upper
84	100		
49	96.2	103.6	155.4#
51	26.1	33.8	50.6#
86	51.3	49.4	74.0

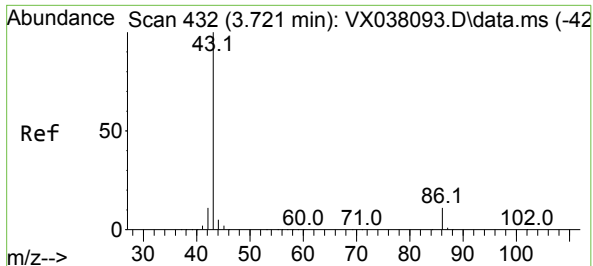


#22
Diisopropyl ether
Concen: 0.216 ug/l
RT: 3.855 min Scan# 454
Delta R.T. 0.091 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion: 45 Resp: 924

Ion	Ratio	Lower	Upper
45	100		
43	131.5	69.7	104.5#
87	0.0	20.8	31.2#
59	439.2	9.0	13.4#





#23

Vinyl Acetate

Concen: 0.699 ug/l

RT: 3.831 min Scan# 4

Delta R.T. 0.110 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Instrument :

MSVOA_X

ClientSampleId :

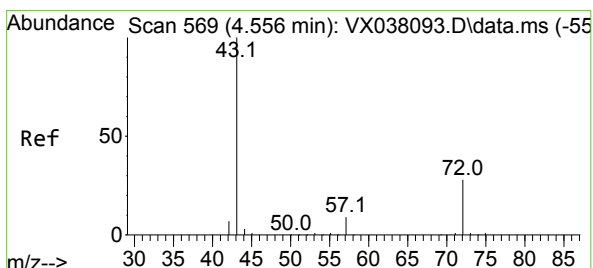
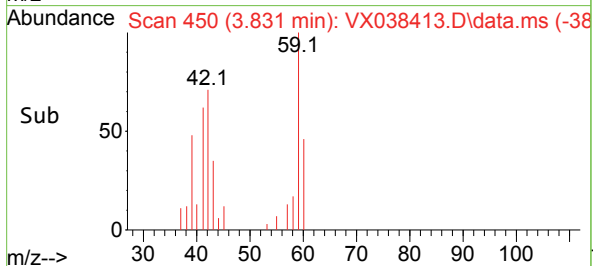
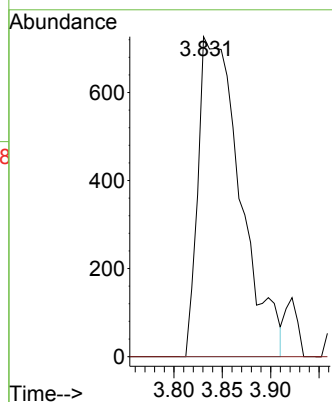
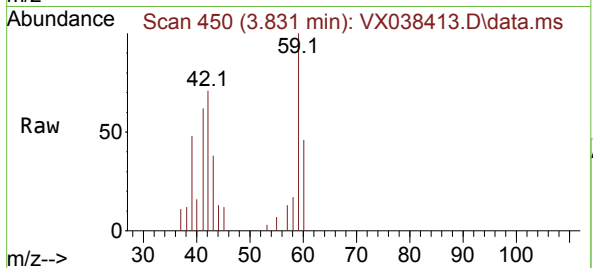
1021-1024

Tgt Ion: 43 Resp: 2196

Ion Ratio Lower Upper

43 100

86 0.0 7.8 11.8#



#25

2-Butanone

Concen: 6.332 ug/l

RT: 4.562 min Scan# 570

Delta R.T. 0.006 min

Lab File: VX038413.D

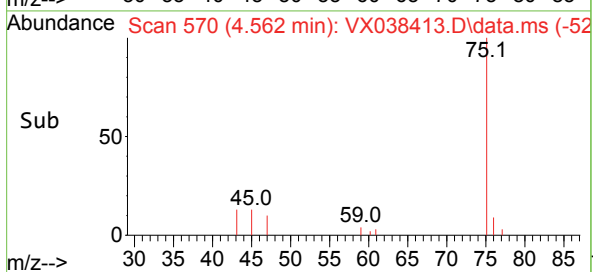
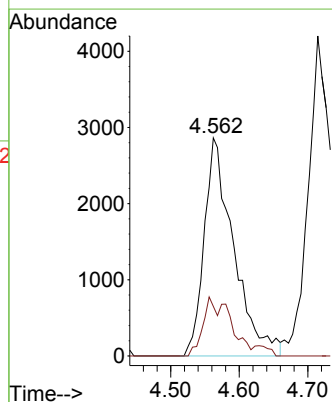
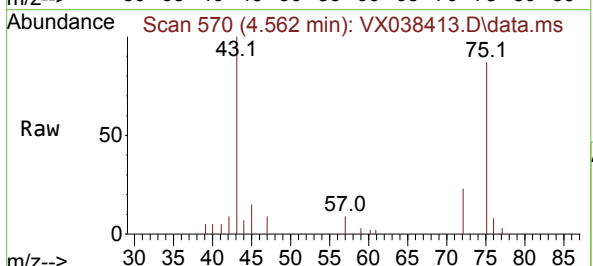
Acq: 20 Oct 2023 19:22

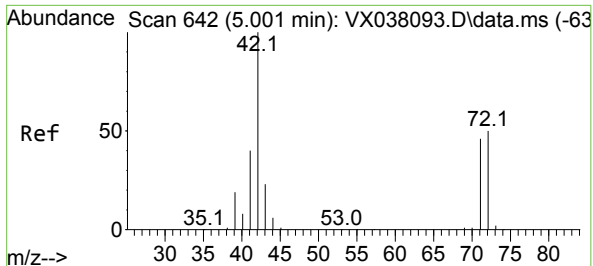
Tgt Ion: 43 Resp: 8564

Ion Ratio Lower Upper

43 100

72 22.7 19.4 29.2





#29

Tetrahydrofuran

Concen: 0.244 ug/l

RT: 5.013 min Scan# 642

Delta R.T. 0.012 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Instrument :

MSVOA_X

ClientSampleId :

1021-1024

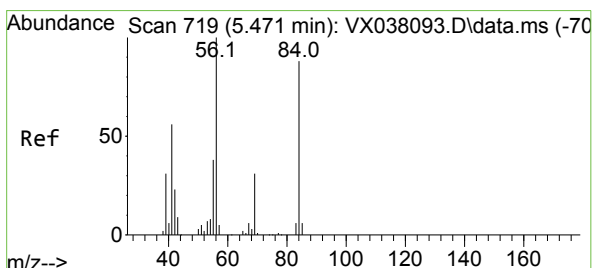
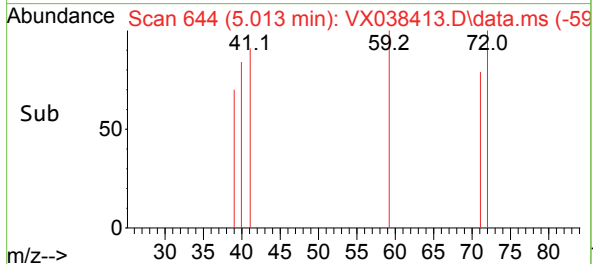
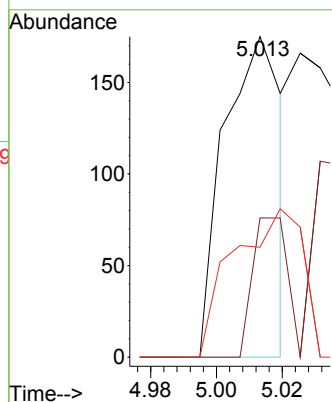
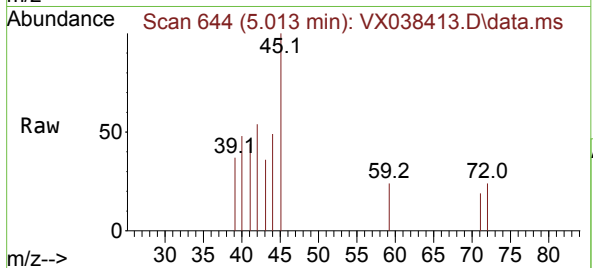
Tgt Ion: 42 Resp: 215

Ion Ratio Lower Upper

42 100

72 26.0 34.2 51.4#

71 55.3 32.2 48.2#



#31

Cyclohexane

Concen: 1.392 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.073 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

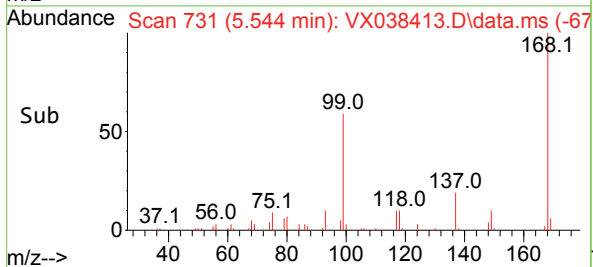
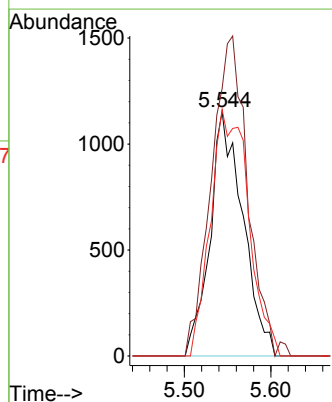
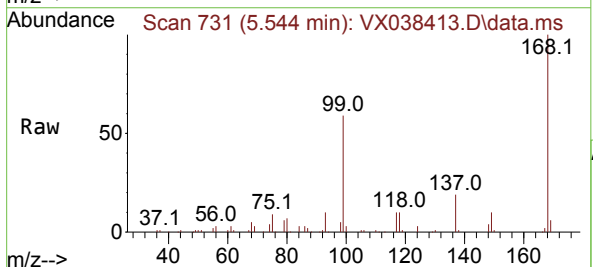
Tgt Ion: 56 Resp: 3029

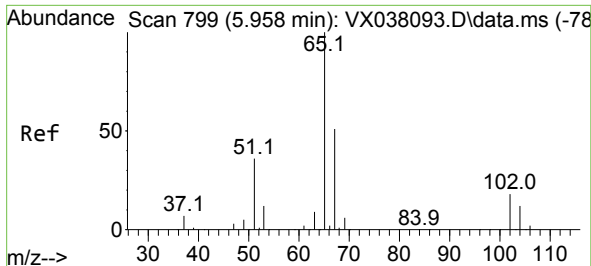
Ion Ratio Lower Upper

56 100

69 109.5 23.4 35.2#

84 101.0 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 44.509 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Instrument :

MSVOA_X

ClientSampleId :

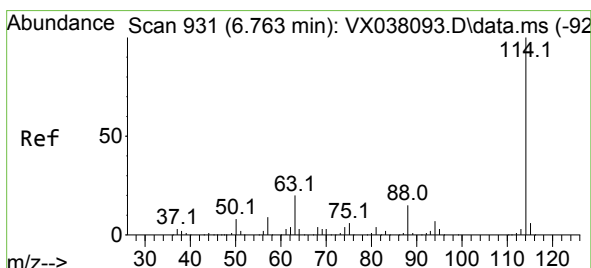
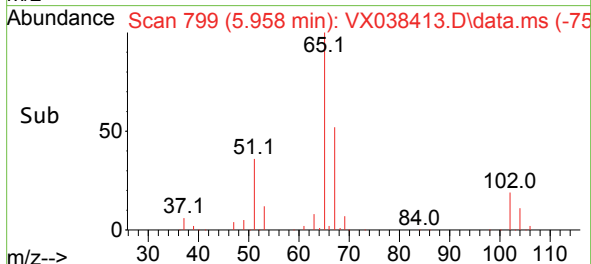
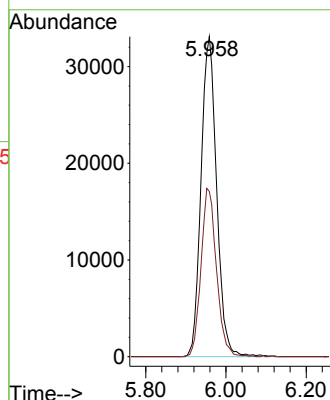
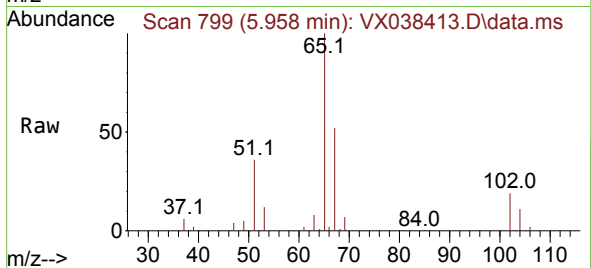
1021-1024

Tgt Ion: 65 Resp: 89390

Ion Ratio Lower Upper

65 100

67 52.1 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

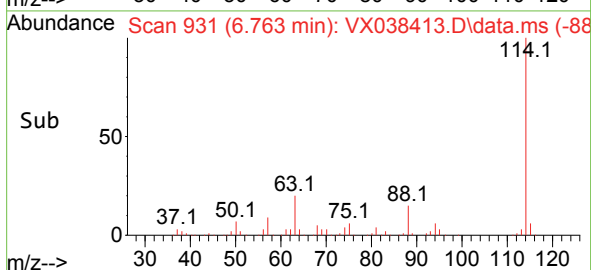
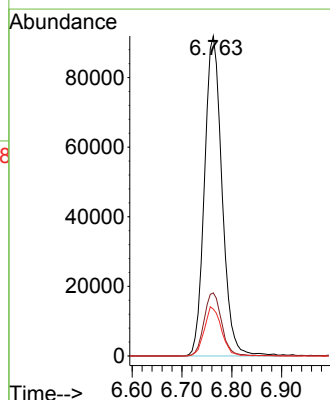
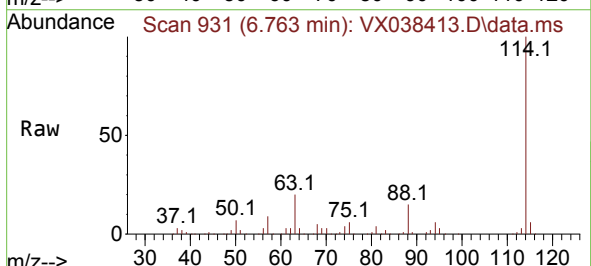
Tgt Ion: 114 Resp: 224763

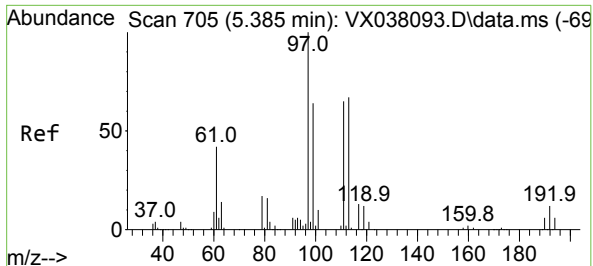
Ion Ratio Lower Upper

114 100

63 19.7 0.0 45.0

88 14.7 0.0 36.6

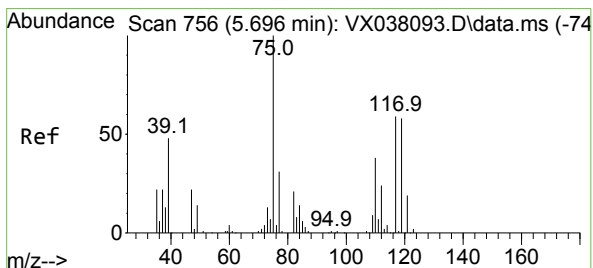
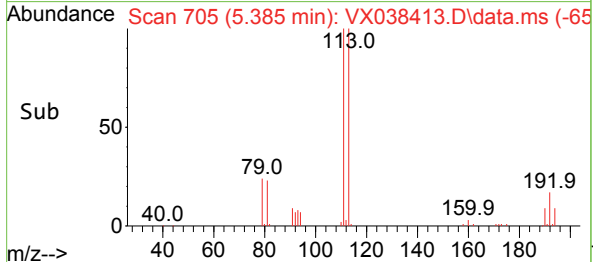
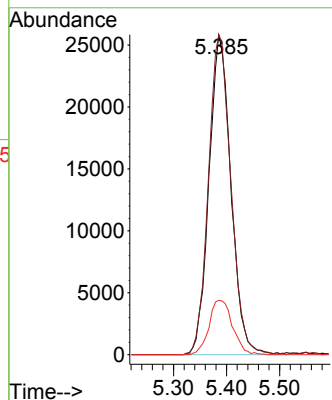
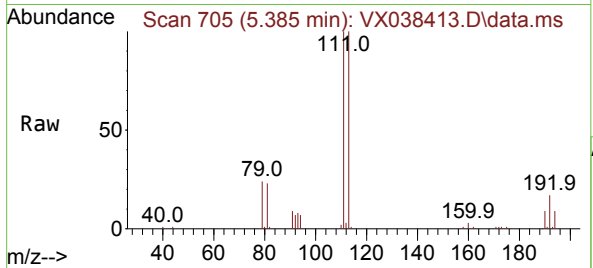




#35
 Dibromofluoromethane
 Concen: 45.701 ug/l
 RT: 5.385 min Scan# 705
 Delta R.T. 0.000 min
 Lab File: VX038413.D
 Acq: 20 Oct 2023 19:22

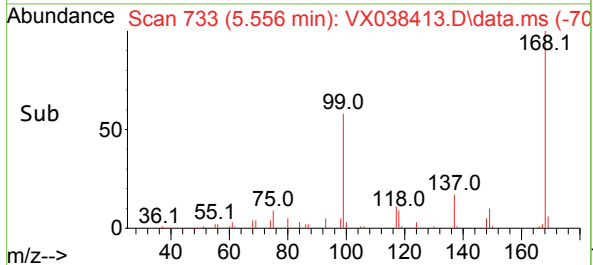
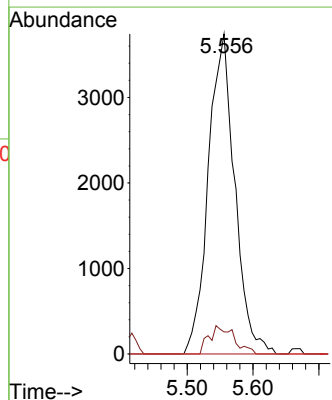
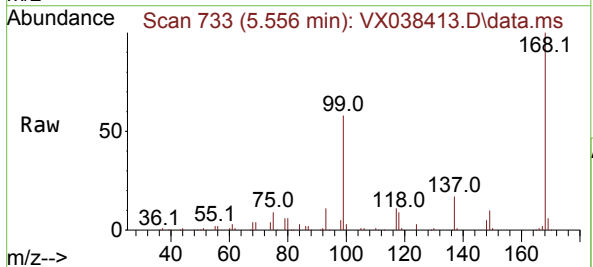
Instrument :
 MSVOA_X
 ClientSampleId :
 1021-1024

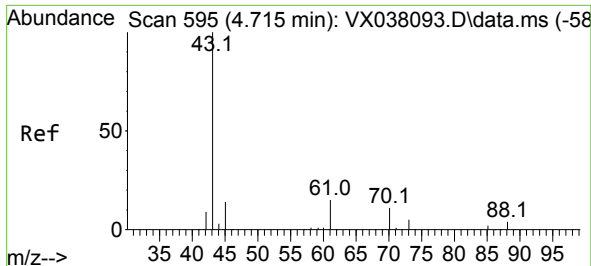
Tgt Ion:113 Resp: 74016
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.9 124.3
 192 18.3 13.3 19.9



#36
 1,1-Dichloropropene
 Concen: 4.690 ug/l
 RT: 5.556 min Scan# 733
 Delta R.T. -0.134 min
 Lab File: VX038413.D
 Acq: 20 Oct 2023 19:22

Tgt Ion: 75 Resp: 10474
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.0 50.9#
 77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 4.235 ug/l

RT: 4.715 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

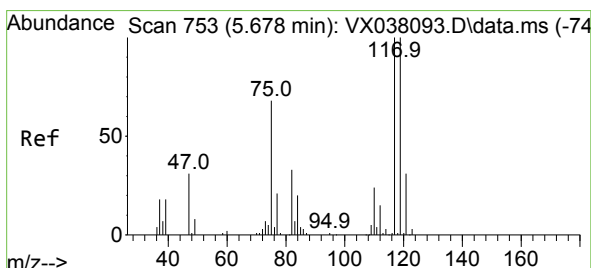
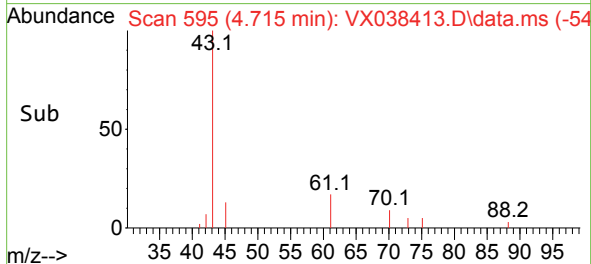
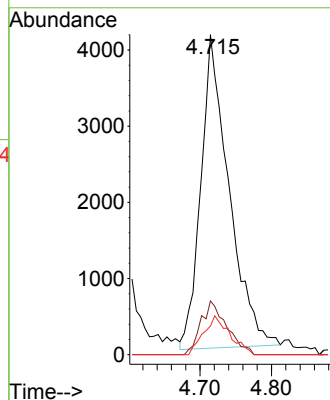
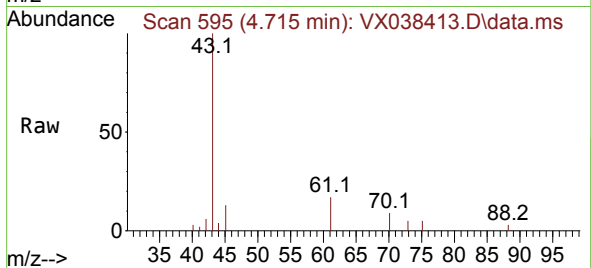
Instrument :

MSVOA_X

ClientSampleId :

1021-1024

Tgt Ion: 43	Resp: 11233
Ion Ratio	Lower Upper
43 100	
61 15.8	10.6 16.0
70 11.5	8.3 12.5



#38

Carbon Tetrachloride

Concen: 5.914 ug/l

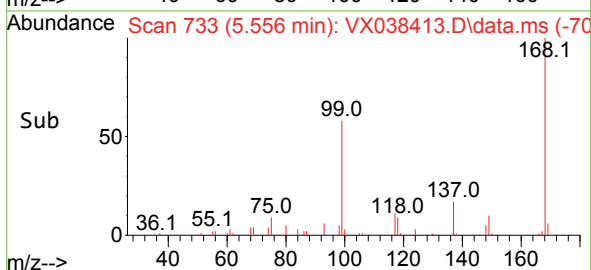
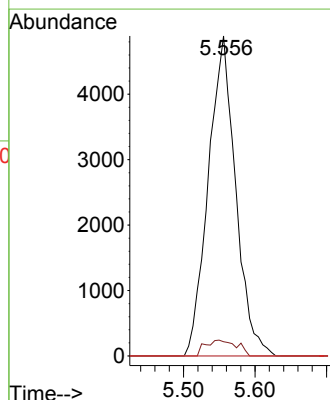
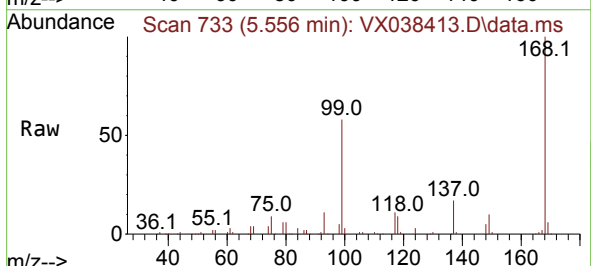
RT: 5.556 min Scan# 733

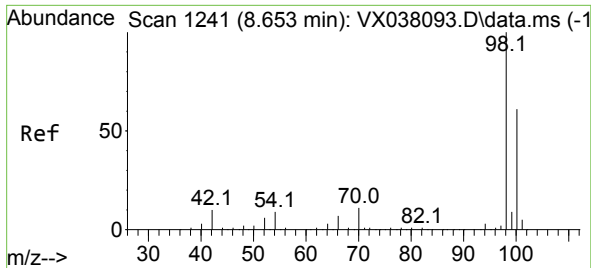
Delta R.T. -0.122 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Tgt Ion:117	Resp:	12993	
Ion	Ratio	Lower	Upper
117	100		
119	4.5	78.2	117.2#
121	0.0	24.4	36.6#

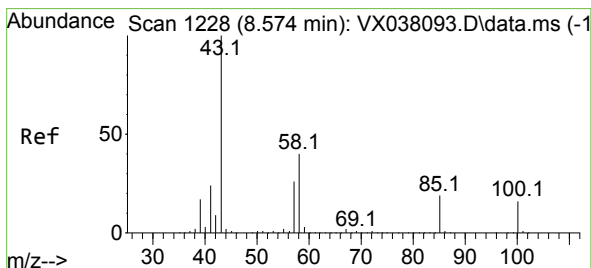
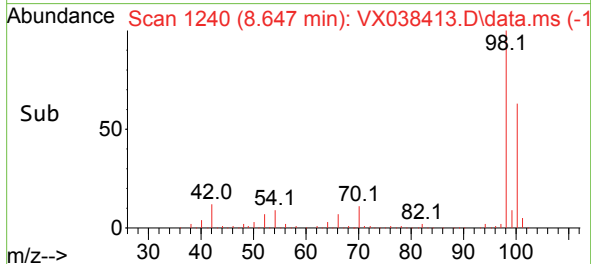
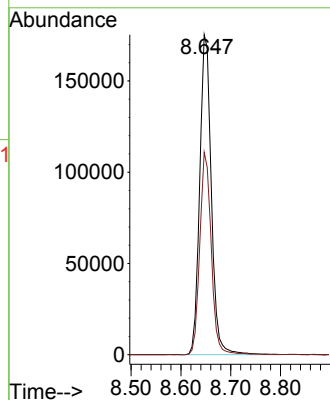
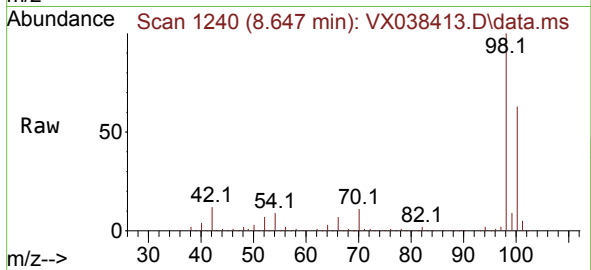




#50
Toluene-d8
Concen: 45.835 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

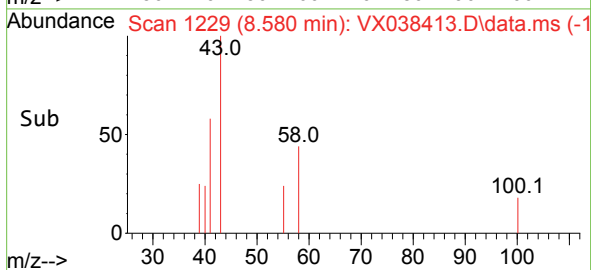
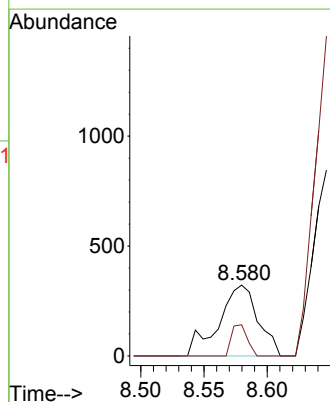
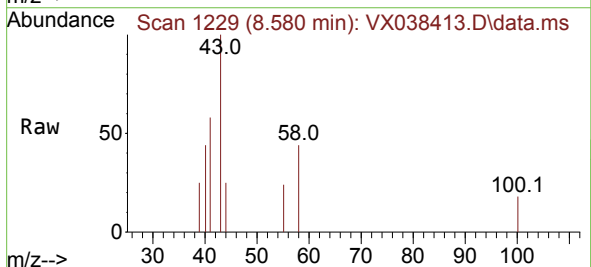
Instrument :
MSVOA_X
ClientSampleId :
1021-1024

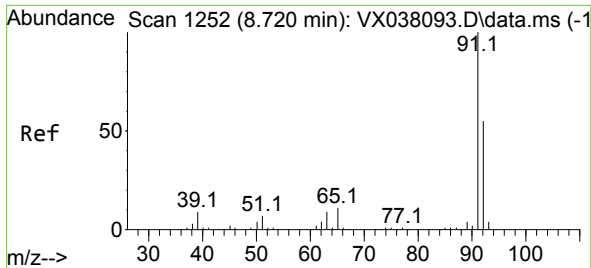
Tgt Ion: 98 Resp: 283662
Ion Ratio Lower Upper
98 100
100 62.6 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.254 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion: 43 Resp: 695
Ion Ratio Lower Upper
43 100
58 17.6 30.4 45.6#

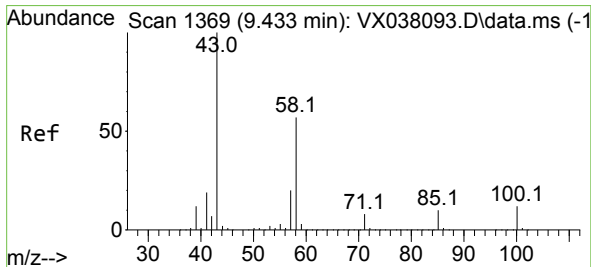
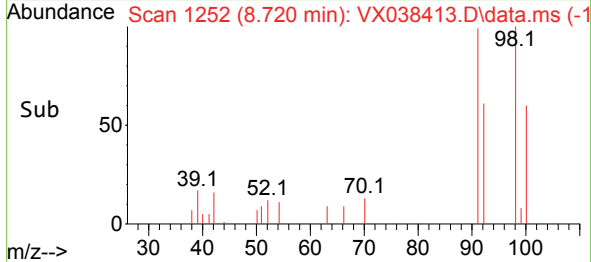
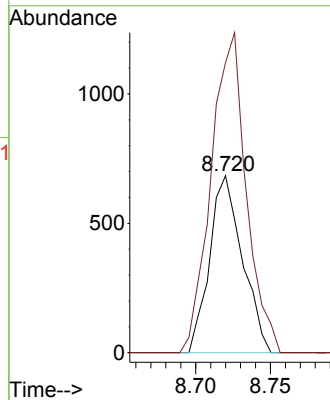
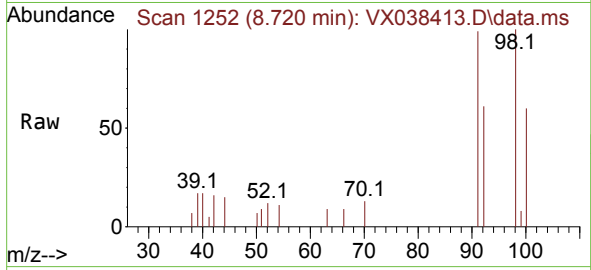




#52
Toluene
Concen: 0.256 ug/l
RT: 8.720 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

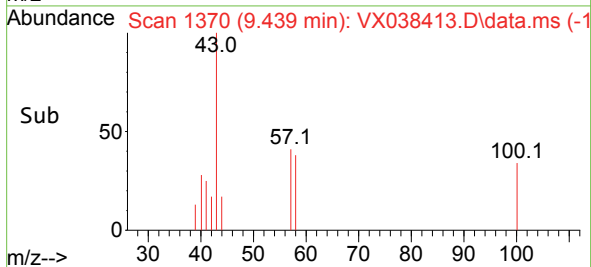
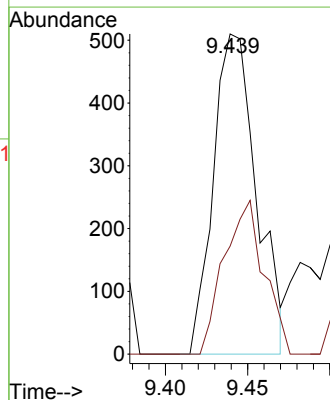
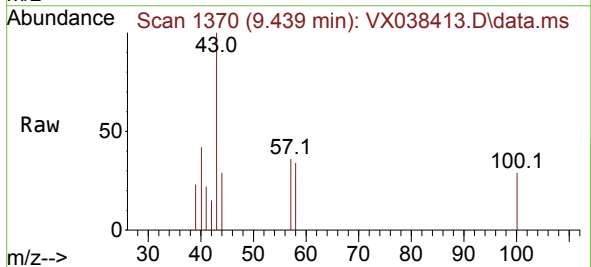
Instrument :
MSVOA_X
ClientSampleId :
1021-1024

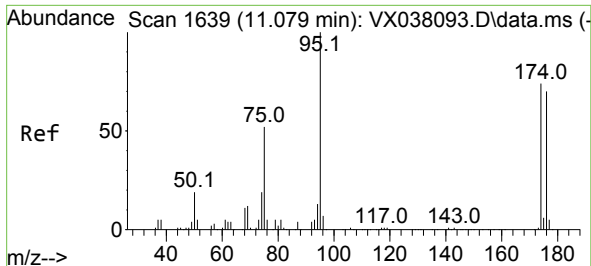
Tgt Ion: 92 Resp: 1043
Ion Ratio Lower Upper
92 100
91 194.2 134.2 201.2



#59
2-Hexanone
Concen: 0.425 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion: 43 Resp: 933
Ion Ratio Lower Upper
43 100
58 44.5 26.2 78.5

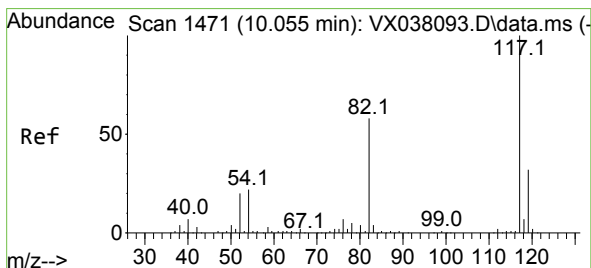
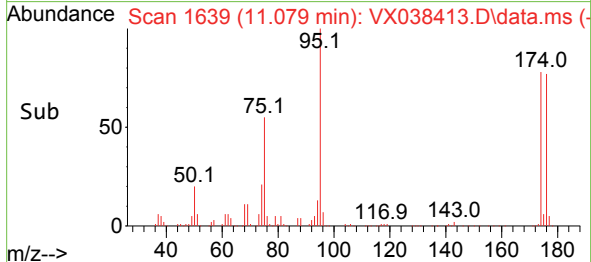
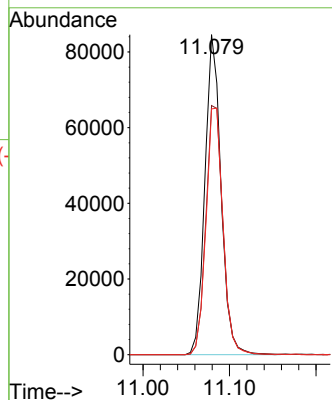
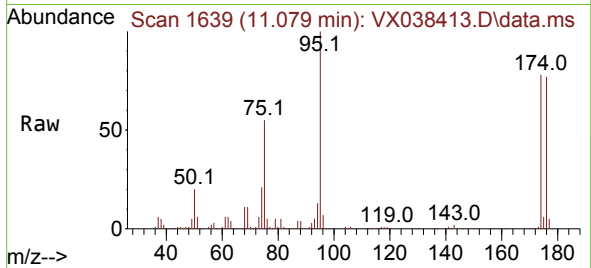




#62
4-Bromofluorobenzene
Concen: 46.554 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

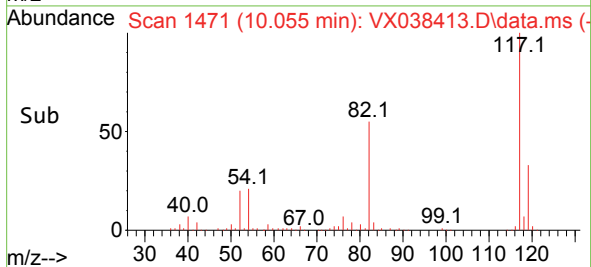
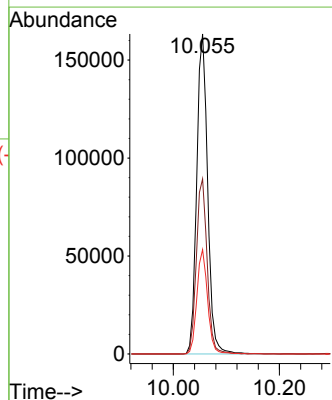
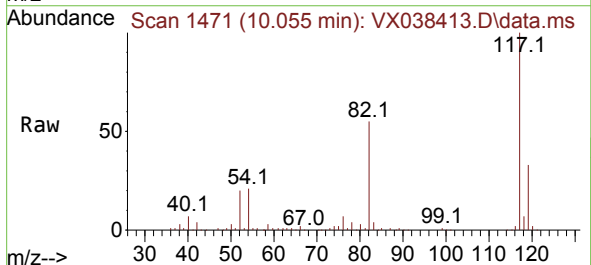
Instrument :
MSVOA_X
ClientSampleId :
1021-1024

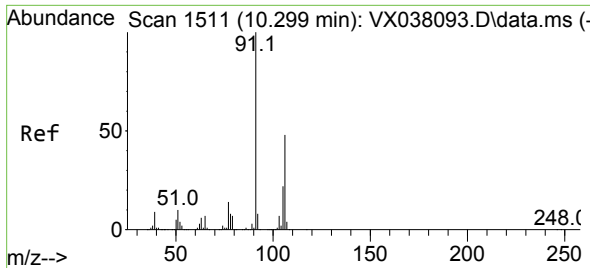
Tgt Ion: 95 Resp: 109225
Ion Ratio Lower Upper
95 100
174 82.3 0.0 135.6
176 81.5 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion: 117 Resp: 233588
Ion Ratio Lower Upper
117 100
82 54.7 46.2 69.4
119 32.6 25.5 38.3

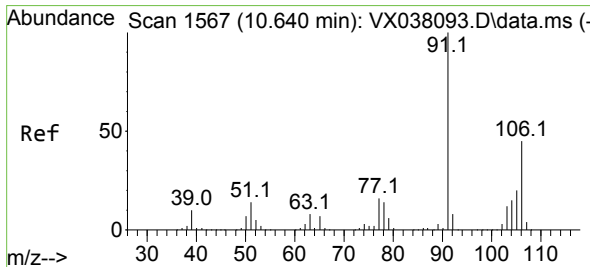
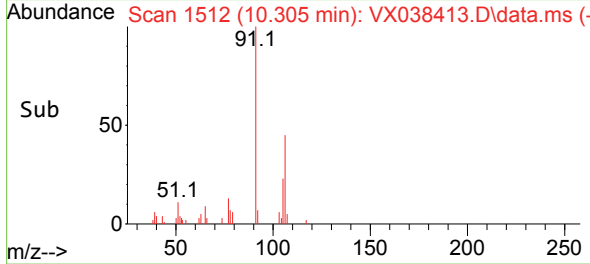
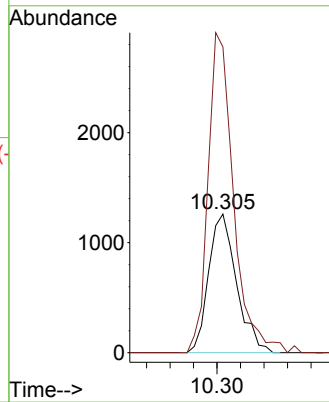
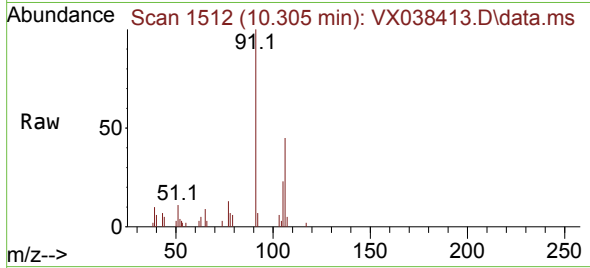




#68
m/p-Xylenes
Concen: 0.617 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

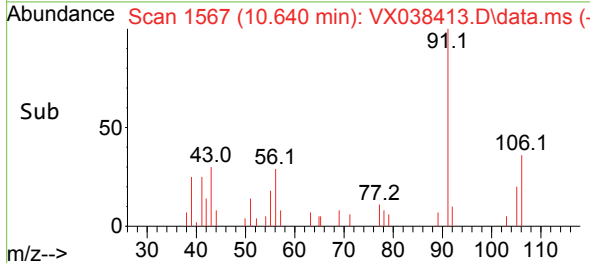
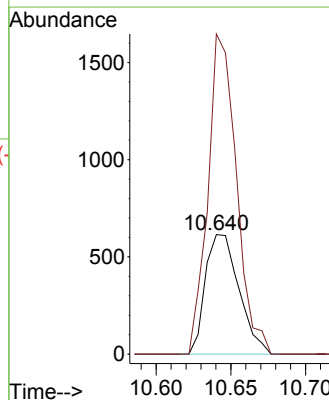
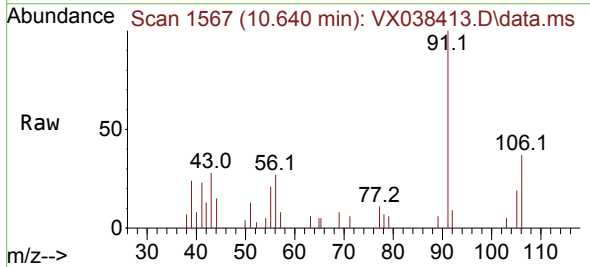
Instrument :
MSVOA_X
ClientSampleId :
1021-1024

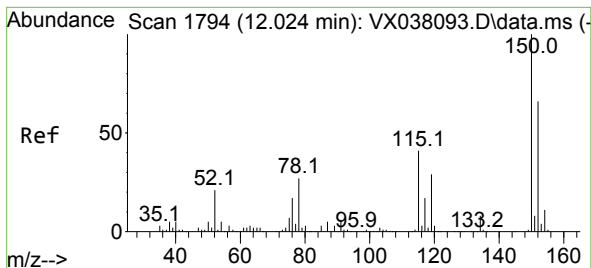
Tgt Ion:106 Resp: 2080
Ion Ratio Lower Upper
106 100
91 211.1 165.5 248.3



#69
o-Xylene
Concen: 0.292 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Tgt Ion:106 Resp: 960
Ion Ratio Lower Upper
106 100
91 228.3 108.9 326.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Instrument :

MSVOA_X

ClientSampleId :

1021-1024

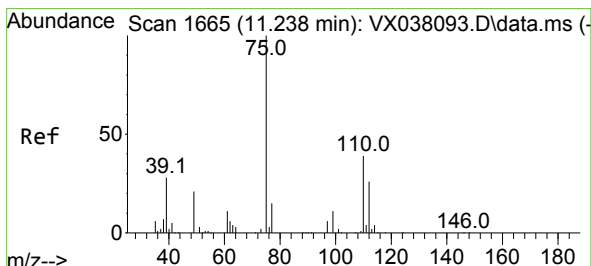
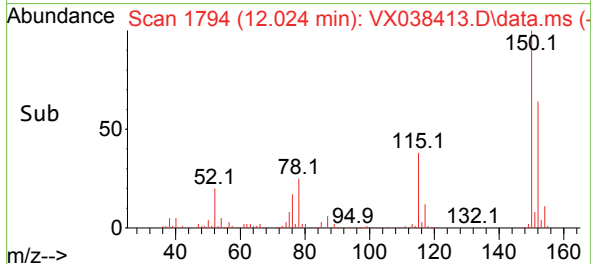
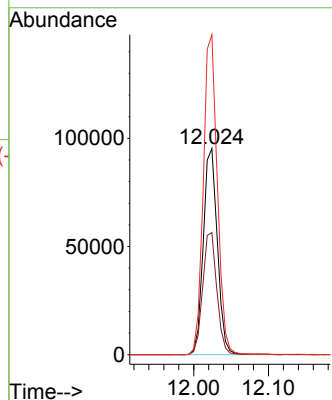
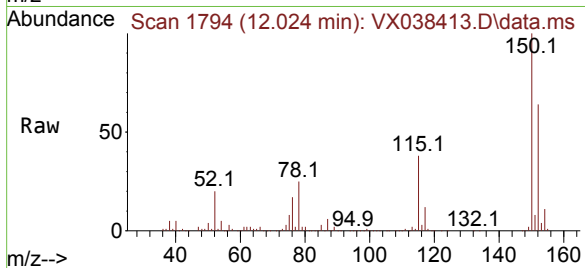
Tgt Ion:152 Resp: 124569

Ion Ratio Lower Upper

152 100

115 59.5 43.3 129.9

150 154.6 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 21.251 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038413.D

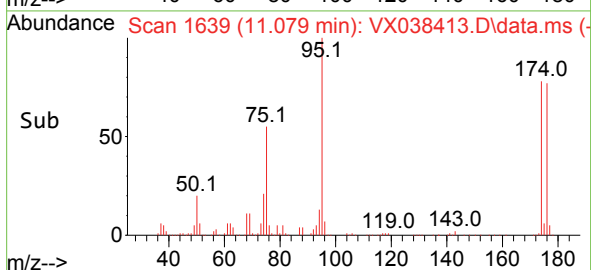
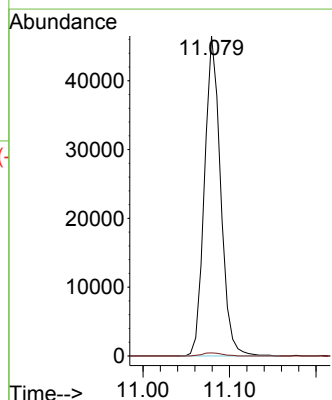
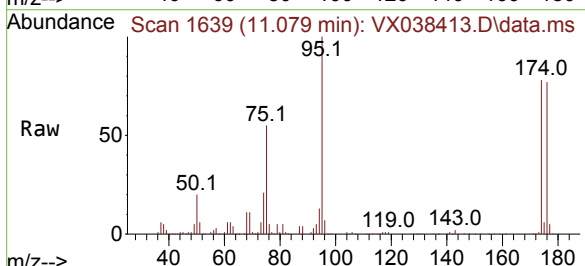
Acq: 20 Oct 2023 19:22

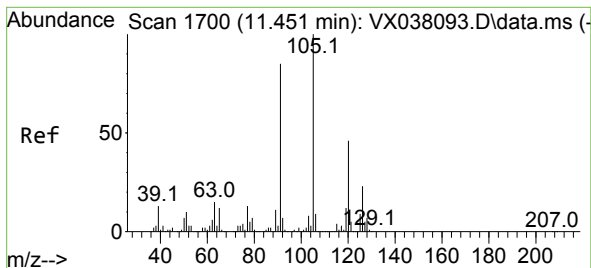
Tgt Ion: 75 Resp: 60182

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.275 ug/l

RT: 11.451 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Instrument :

MSVOA_X

ClientSampleId :

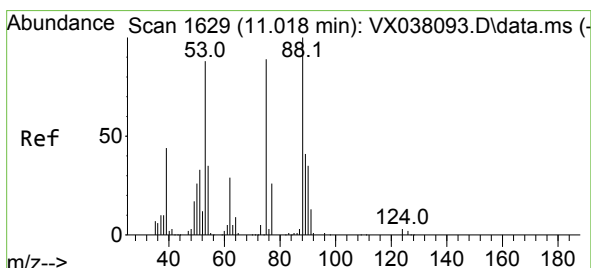
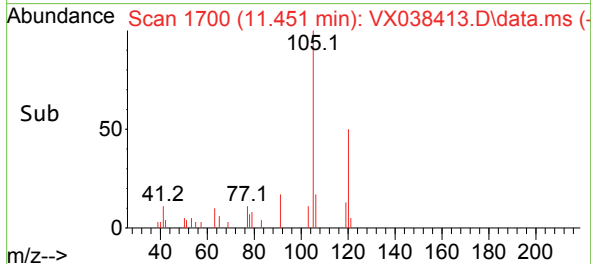
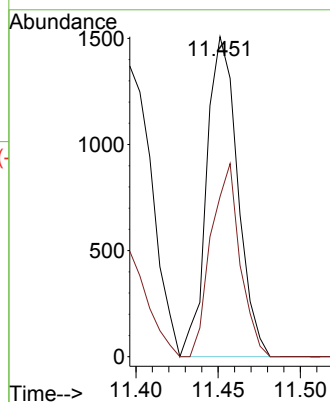
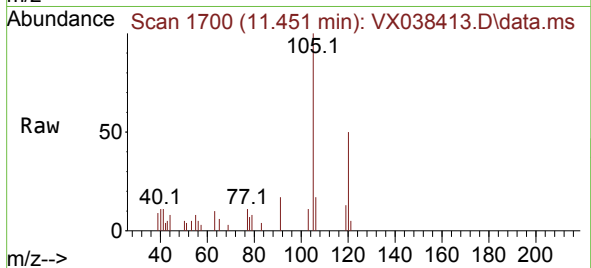
1021-1024

Tgt Ion:105 Resp: 1980

Ion Ratio Lower Upper

105 100

120 56.4 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 61.080 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

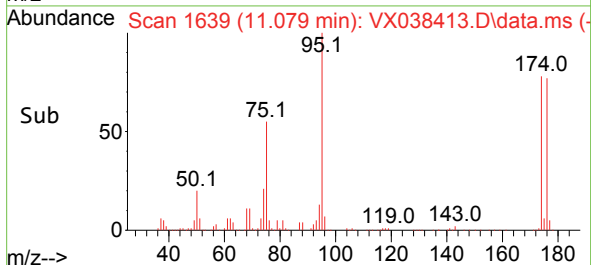
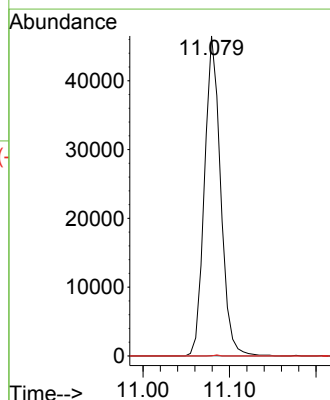
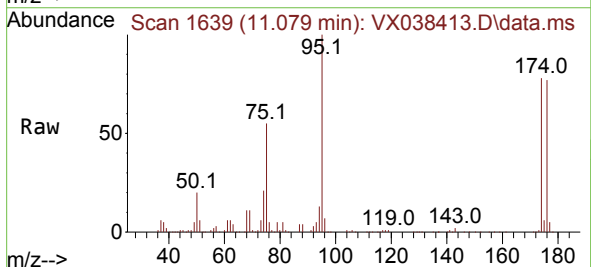
Tgt Ion: 75 Resp: 60182

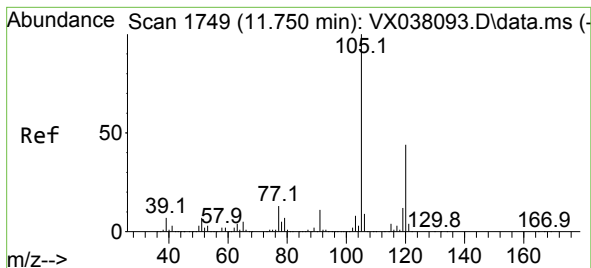
Ion Ratio Lower Upper

75 100

53 0.1 90.5 135.7#

89 0.1 36.9 55.3#





#84

1,2,4-Trimethylbenzene

Concen: 1.216 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Instrument :

MSVOA_X

ClientSampleId :

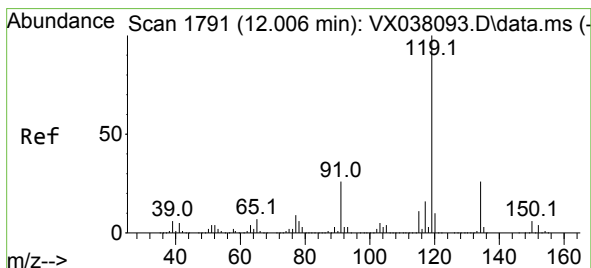
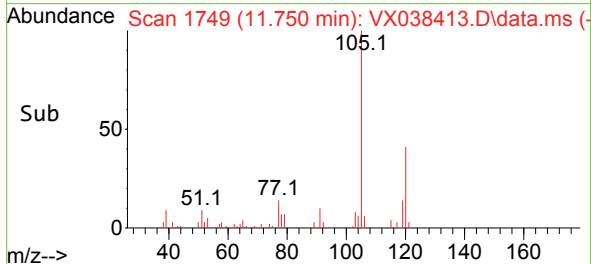
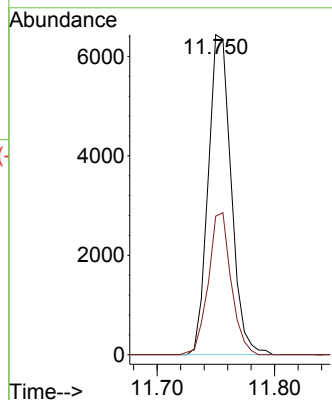
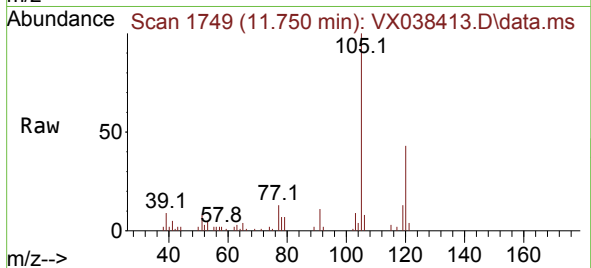
1021-1024

Tgt Ion:105 Resp: 8740

Ion Ratio Lower Upper

105 100

120 44.1 21.2 63.6



#86

p-Isopropyltoluene

Concen: 0.252 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

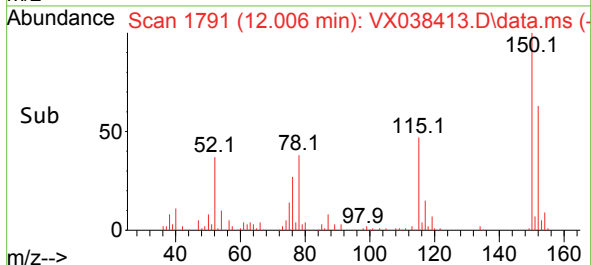
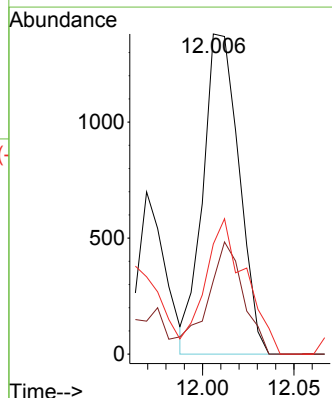
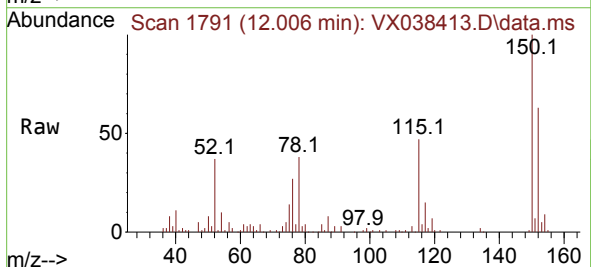
Tgt Ion:119 Resp: 1899

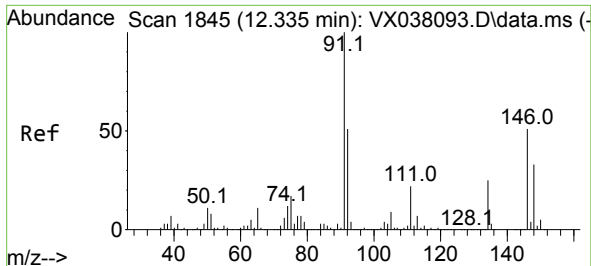
Ion Ratio Lower Upper

119 100

134 34.1 12.8 38.3

91 47.6 13.1 39.3#





#89

n-Butylbenzene

Concen: 0.274 ug/l

RT: 12.329 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX038413.D

Acq: 20 Oct 2023 19:22

Instrument :

MSVOA_X

ClientSampleId :

1021-1024

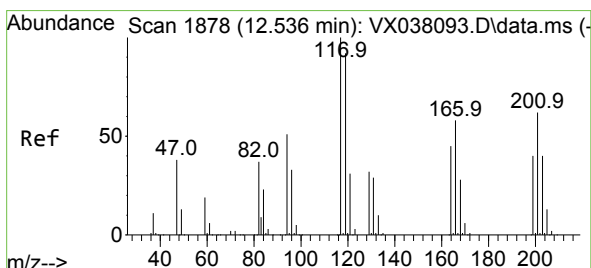
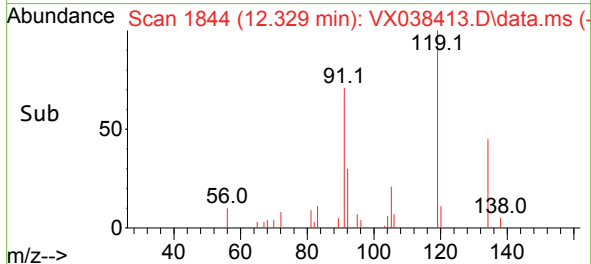
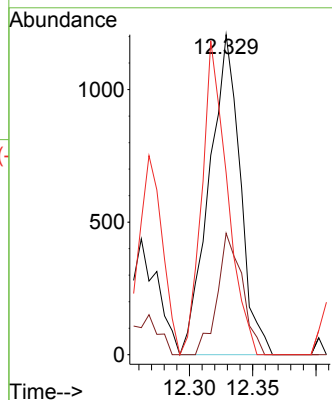
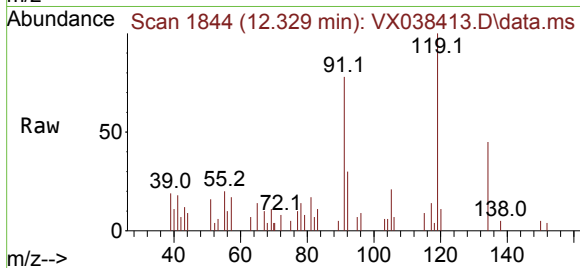
Tgt Ion: 91 Resp: 2053

Ion Ratio Lower Upper

91 100

92 30.6 27.4 82.0

134 80.8 12.6 37.8#



#90

Hexachloroethane

Concen: 0.204 ug/l

RT: 12.530 min Scan# 1877

Delta R.T. -0.006 min

Lab File: VX038413.D

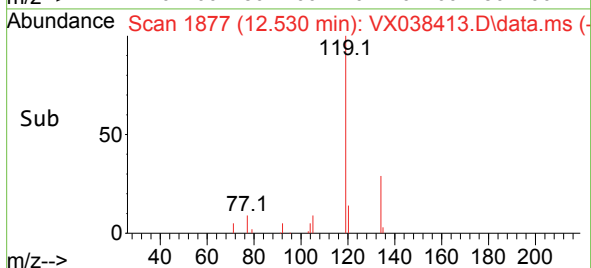
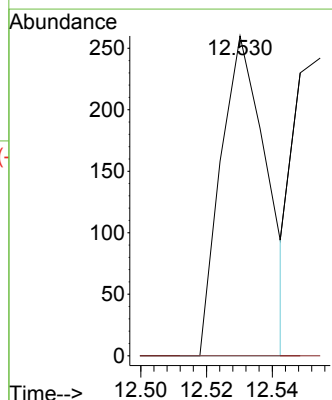
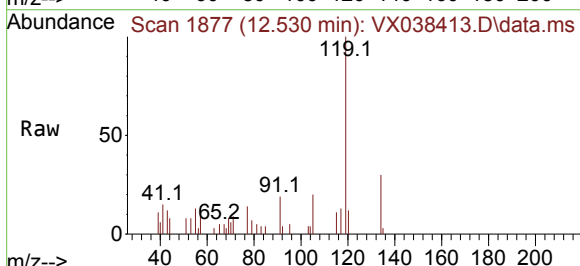
Acq: 20 Oct 2023 19:22

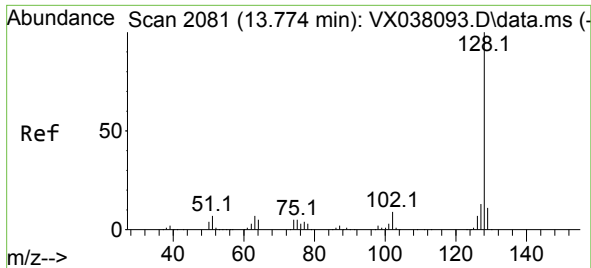
Tgt Ion: 117 Resp: 255

Ion Ratio Lower Upper

117 100

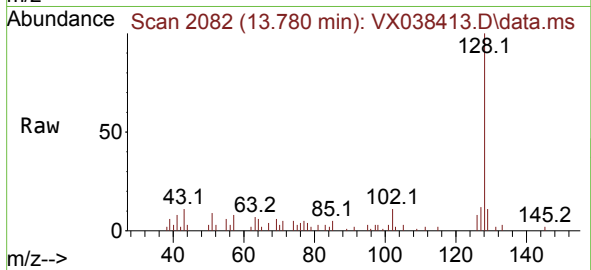
201 0.0 32.9 98.6#





#95
Naphthalene
Concen: 0.713 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX038413.D
Acq: 20 Oct 2023 19:22

Instrument :
MSVOA_X
ClientSampleId :
1021-1024



Tgt Ion:128 Resp: 6560
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 10.9 8.8 13.2

